FURUNO

English

Electronic Chart Display and Information System (ECDIS) Operator's Guide

procedures for this equipment. For detailed information, see the Operator's Manual The brand and product names mentioned in this guide are trademarks, registered trademarks or service marks of their respective holders.

This guide provides the basic operating

Model FMD-3200/FMD-3200-BB/FMD-3300

Controls

The system can be operated with the controls or the trackball module. The procedures in this operator's guide use the trackball module.

BRILL knob

Rotate: Adjusts the brilliance of the monitor.

Push: Selects a A/C RAIN knob color palette.

GAIN knob

Rotate: Adjusts the sensitivity of the radar receiver.

Rotate: Suppresses rain clutter.

Push: Toggles between manual and automatic rain

clutter adjustment.

A/C SEA knob

Rotate: Suppresses sea clutter.

Push: Toggles between manual and automatic sea

clutter adjustment.

Status LED

The color and state of the LED change according to alert status.

OFF: Heater on CPU board is on.

Green, lighting: Normal operation status; no alerts generated. Red, flashing rapidly: Alert not acknowledged nor rectified. Red, flashing slowly: Alert not acknowledged, but rectified.

Red, lighting: SYSTEM FAIL, or acknowledged but not rectified alert.

Rotary encoder for VRM

Adjusts the active VRM.

VRM1. VRM2

Activates, deactivates respective VRM.

POWER kev

Turns the system on or off. (This key may or may not control monitor on/off depending on monitor setting.)

USB port (under cover)

Connects a USB flash drive.

Trackball module

VIEW/

HIDE

ACQ/

ACT

TARGET

DATA

TARGET

CANCEL

Operates like a PC mouse.

Rotary encoder for EBL

Adjusts the active EBL.

EBL1. EBL2

Activates, deactivates respective EBL.

ALARM ACK kev

Acknowledges alerts; silences the audio alarm.

InstantAccess knob

Accesses functions on the InstantAccess bar[™].

Rotate: Selects item.

Push: Confirms selection.

ESC key

Goes back one step in current InstantAccess bar[™] operation.

Keyboard

A keyboard for entering alphanumeric data.

MFD kev

Toggles operating modes.

UNDO kev

Undoes the last operation, when creating a route or user chart.

RANGE kev

Selects a chart scale.

VIEW/HIDE kev

Shows, hides EBLs, Instant Access bar™, Overlay/NAV Tools box. VRMs. Route Information box.

ACQ/ACT kev

Activates selected sleeping AIS target.

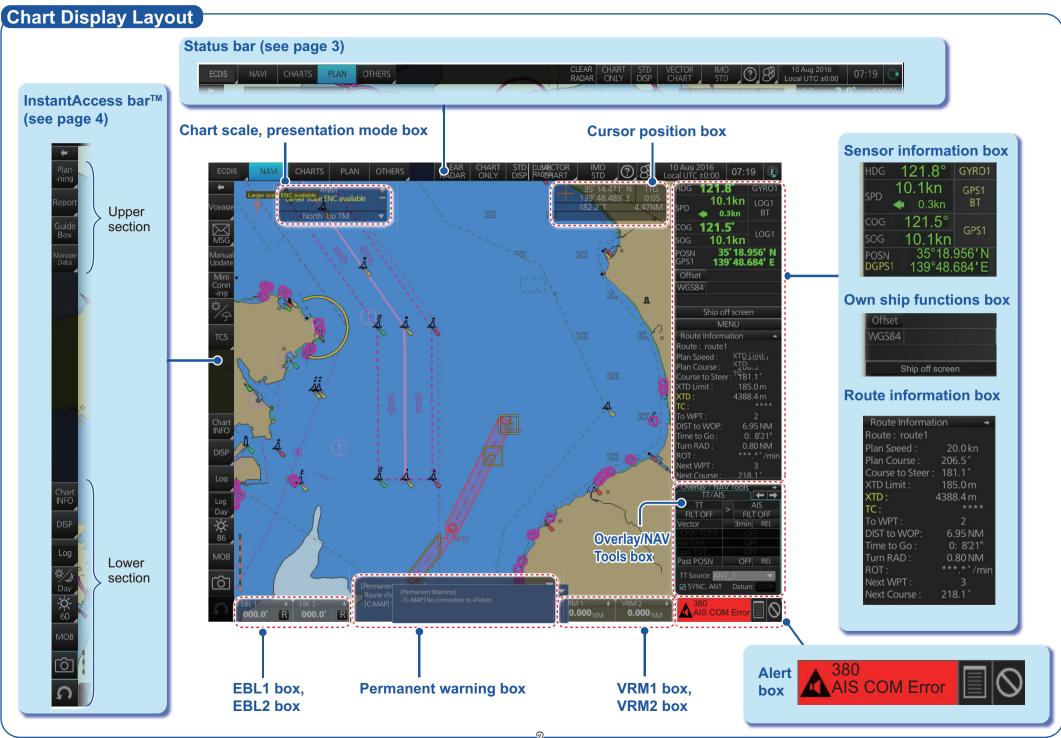
TARGET DATA kev

Displays the detailed target data for selected TT. AIS target.

TARGET CANCEL key

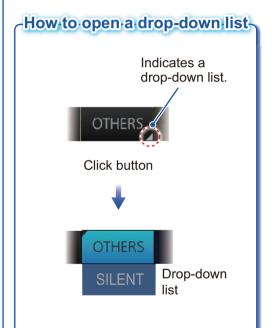
Sleeps selected activated AIS target.

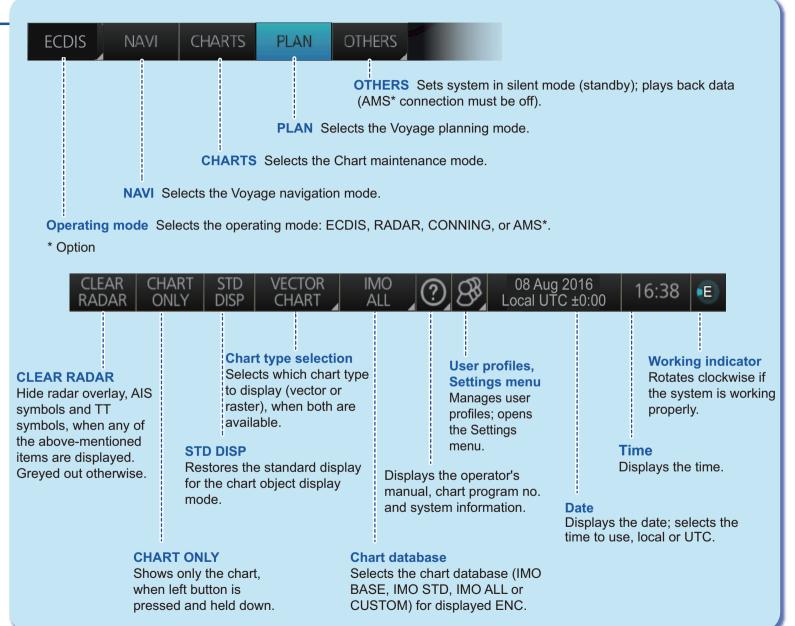


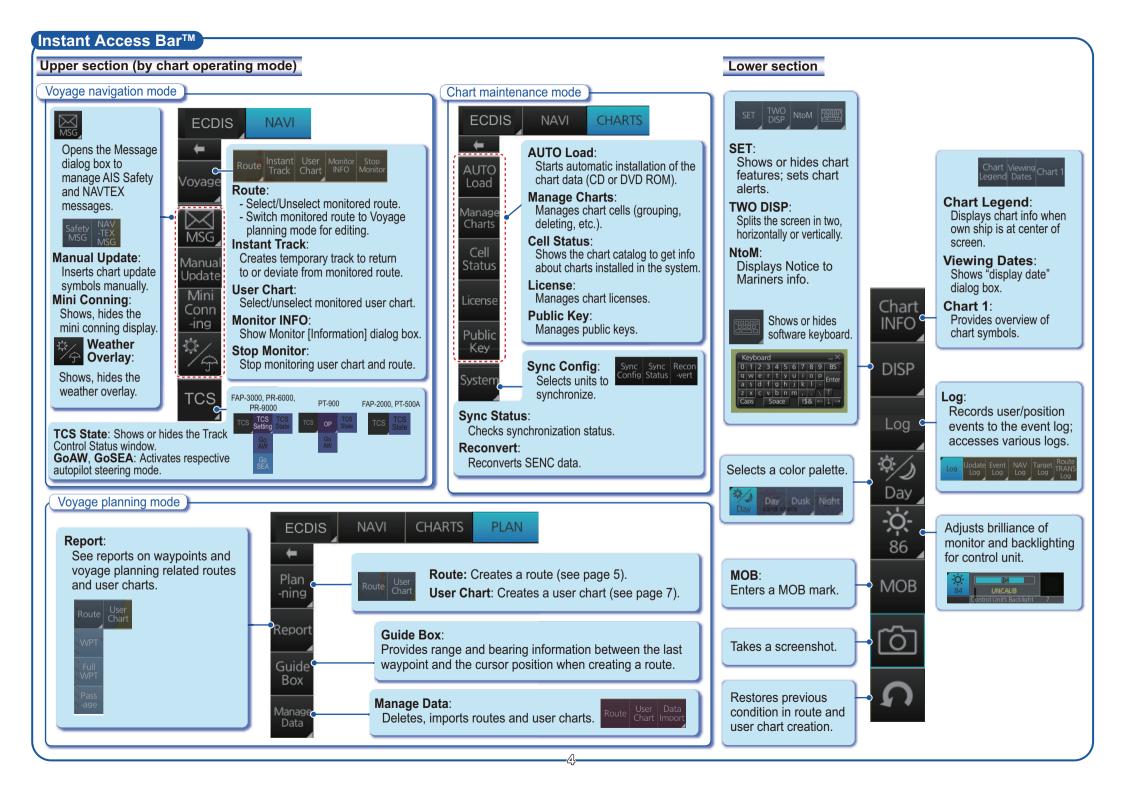


Status Bar (chart for radar mode)





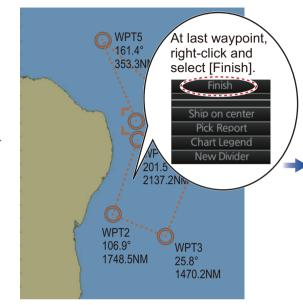




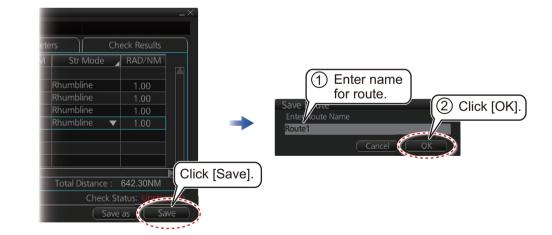
Routes

How to create a route



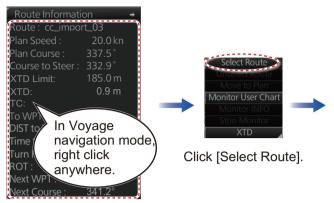


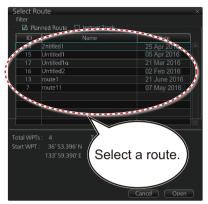
Continue entering waypoints.

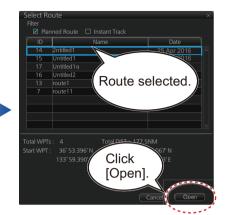


Routes (con't.)

How to select a route to monitor

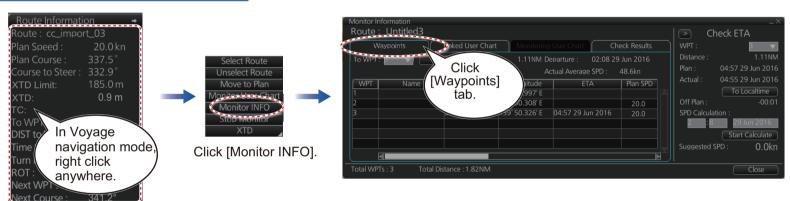






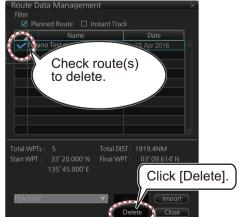


How to view route waypoint information



How to delete a route



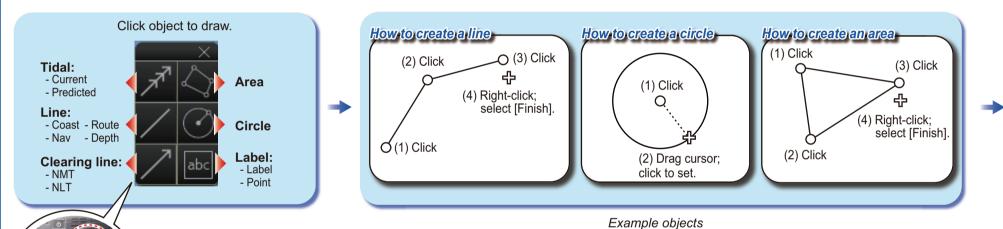


User Charts

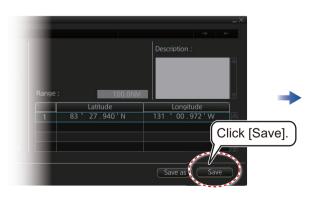
How to create a user chart

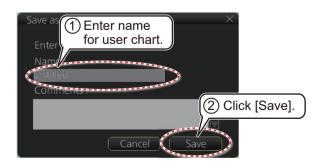








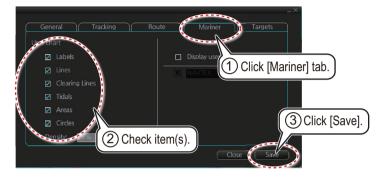




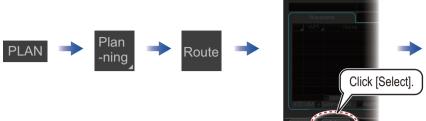


How to select objects to display in user chart





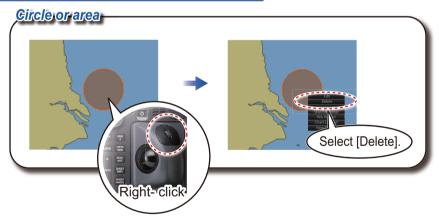
How to link a user chart to a route

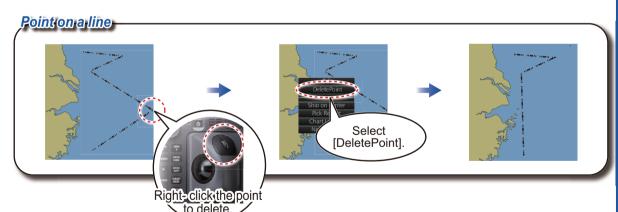






How to delete objects from a user chart

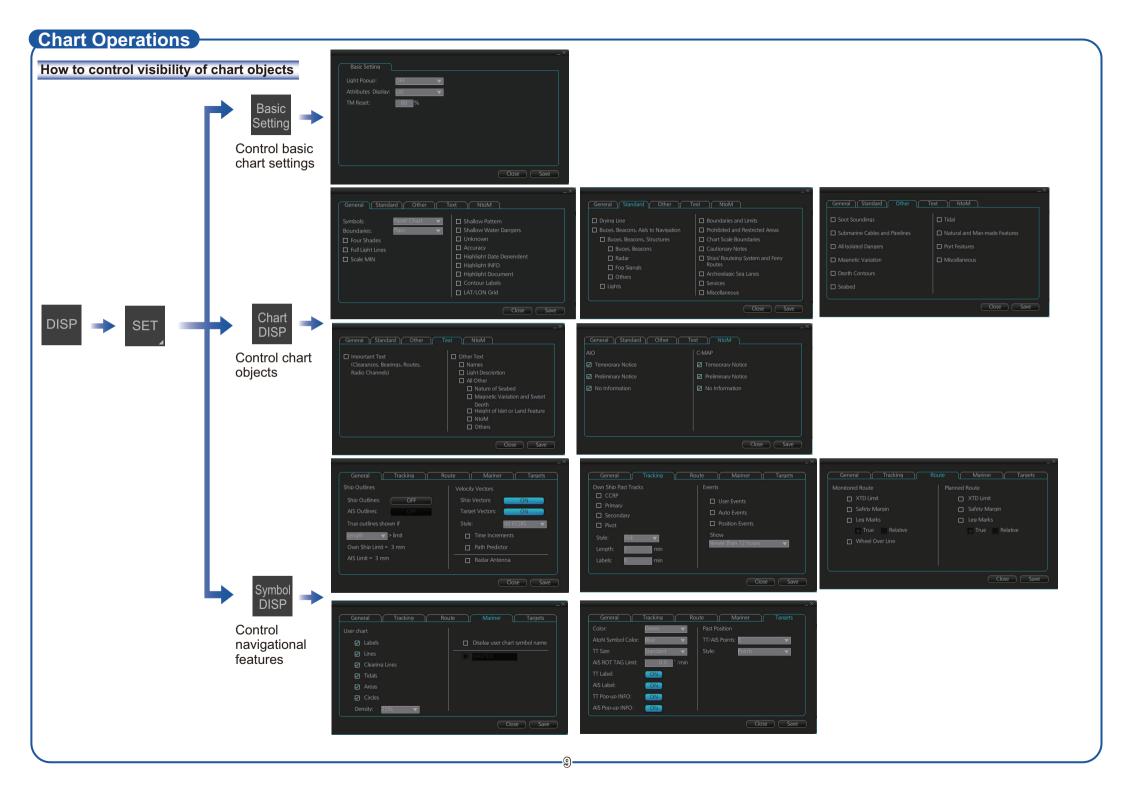




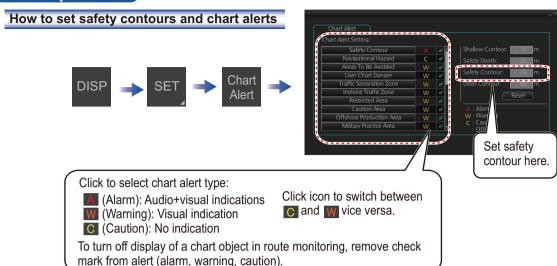
How to delete user charts



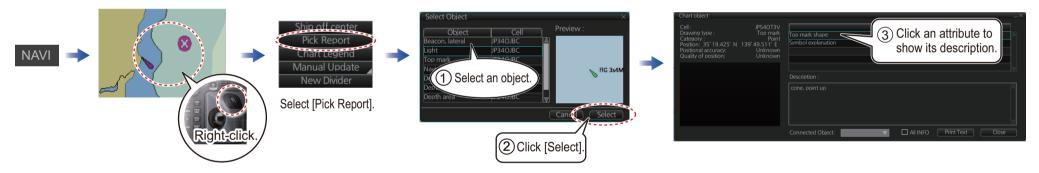




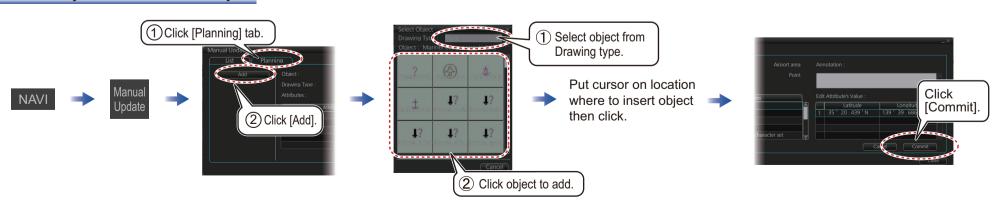




How to find chart object information (ENC chart)



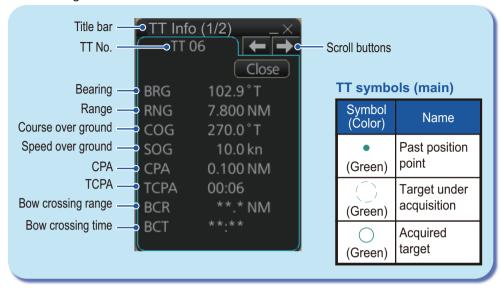
How to manually insert a "new" chart object

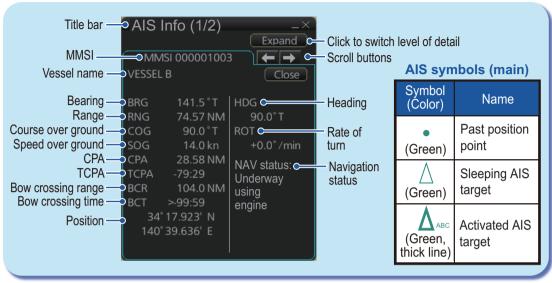


TT/AIS Operations

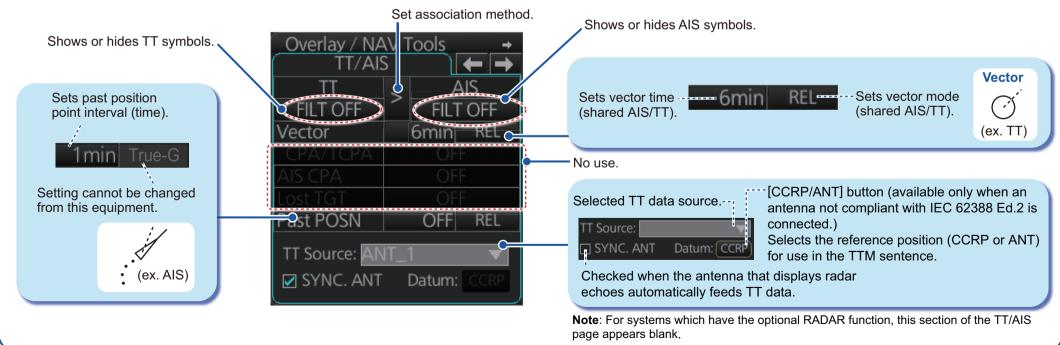
How to find target info

Click a target to show its information.





How to set up TT and AIS on the TT/AIS page in Overlay/NAV Tools box

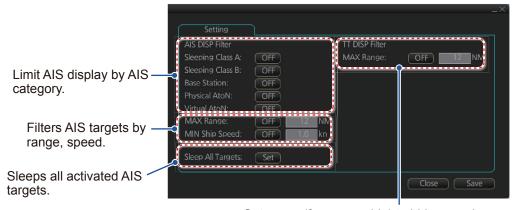


TT/AIS Operations (con't)

Open the chart menu, select TT/AIS Setting and then Setting. The below menus can also be displayed by clicking the radio button on the pop-up menu that appears when an item other than TT/AIS is selected on the Overlay/NAV Tools box.

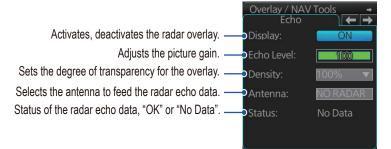
Vector 6min REL AIS FILT OFF TT FILT ON

How to filter TT and AIS displays, sleep all targets



Set range (from own ship) to hide vessels beyond the range set

Radar Overlay





Alert Icons and Their Meanings

No.	Icon	Alert state	Description
Emergency, Alarm alert			
1		Active - unacknowledged alarm	Flashing red triangle. Loudspeaker symbol at center. Presented together with alert text.
2		Active - silenced alarm	Flashing red triangle. Loudspeaker symbol at center with diagonal line through symbol. Presented together with alert text.
3		Active - acknowledged alarm	Steadily displayed red triangle. Excalamtion mark at center. Presented together with alert text.
4	A	Active - reponsibility tranferred alarm	Steadily displayed red triangle. Right arrow at center. Presented together with alert text.
5		Rectified - unacknowledged alarm	Flashing red triangle. Tick mark at center. Presented together with alert text.
Warning alert			
6	•	Active - unacknowledged warning	Flashing yellow-orange circle. Loudspeaker symbol at center. Presented together with alert text.
7	N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/	Active - silenced warning	Flashing yellow-orange circle. Loudspeaker symbol at center with diagonal line through symbol. Presented together with alert text.
8	0	Active - acknowledged warning	Steadily displayed yellow-orange circle. Excalamtion mark at center. Presented together with alert text.
9	\ominus	Active - reponsibility tranferred warning	Steadily displayed yellow-orange circle. Right arrow at center. Presented together with alert text.
10	$leve{oldsymbol{\circ}}$	Rectified - unacknowledged warning	Flashing yellow-orange circle. Tick mark at center. Presented together with alert text.
Caution alert			
11	Ī	Caution	Steadily displayed yellow square. Excalamtion mark at center. Presented together with alert text.
Other icons			
12	+	Aggregation	Plus sign. Presented together with icon numbers 1 to 11.
13		Acknowledged not allowed for alarm	Red triangle. Cross in center of circle. Presented together with icon numbers 1, 2 and 5.
14	\times	warning	Yellow-orange circle. Cross in center of circle. Presented together with icon numbers 6, 7 and 10.

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